FIG.1

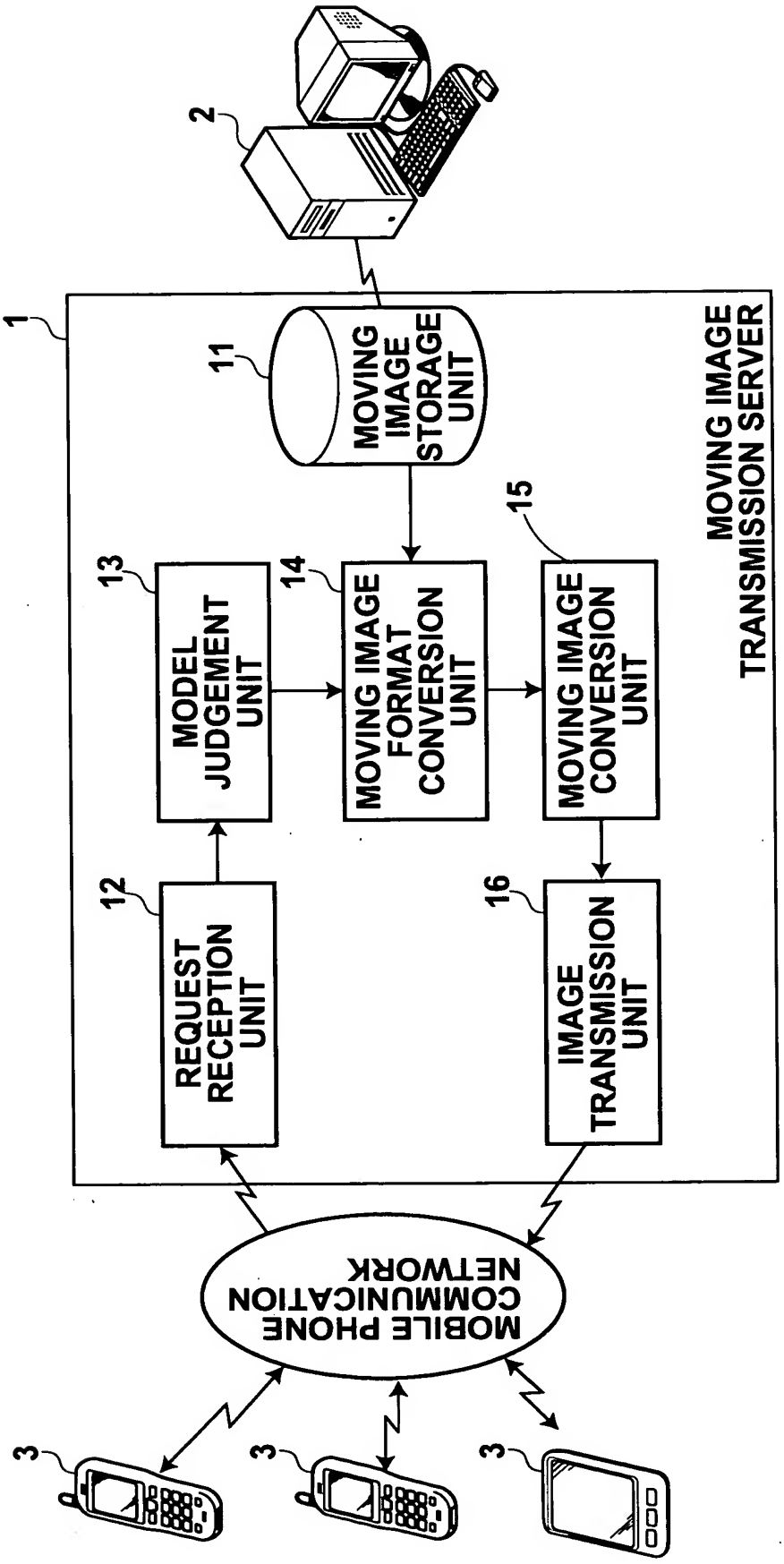

2
1
MOVING IMAGE TRANSMISSION SERVER
11
MOVING IMAGE STORAGE UNIT
13
MODEL JUDGEMENT UNIT
14
MOVING IMAGE FORMAT CONVERSION UNIT
15
MOVING IMAGE CONVERSION UNIT
12
REQUEST RECEPTION UNIT
16
IMAGE TRANSMISSION UNIT
MOBILE PHONE COMMUNICATION NETWORK
3
3
3

FIG.2

T1

MODELS	ABILITY OR INABILITY TO DISPLAY MOVING IMAGE	ABILITY OR INABILITY TO DISPLAY MULTIMEDIA IMAGE	SCREEN SIZE	NUMBER OF DISPLAYABLE COLORS	NUMBER OF FRAMES IN REDUCED-COLOR MOVING IMAGE	DATA SIZE (KB)
A001	×	○	120x130	4096	5	20
A002	○	○	120x130	65536	10	20
B001	○	○	176x164	262144	12	20
B002	○	×	132x142	262144	12	20
C001	×	×	120x130	65536	5	10
C002	○	○	132x160	262144	10	20
C003	○	×	132x136	65536	10	20
D001	×	×	160x198	65536	7	10
D002	×	×	128x128	65536	7	10

FIG.3

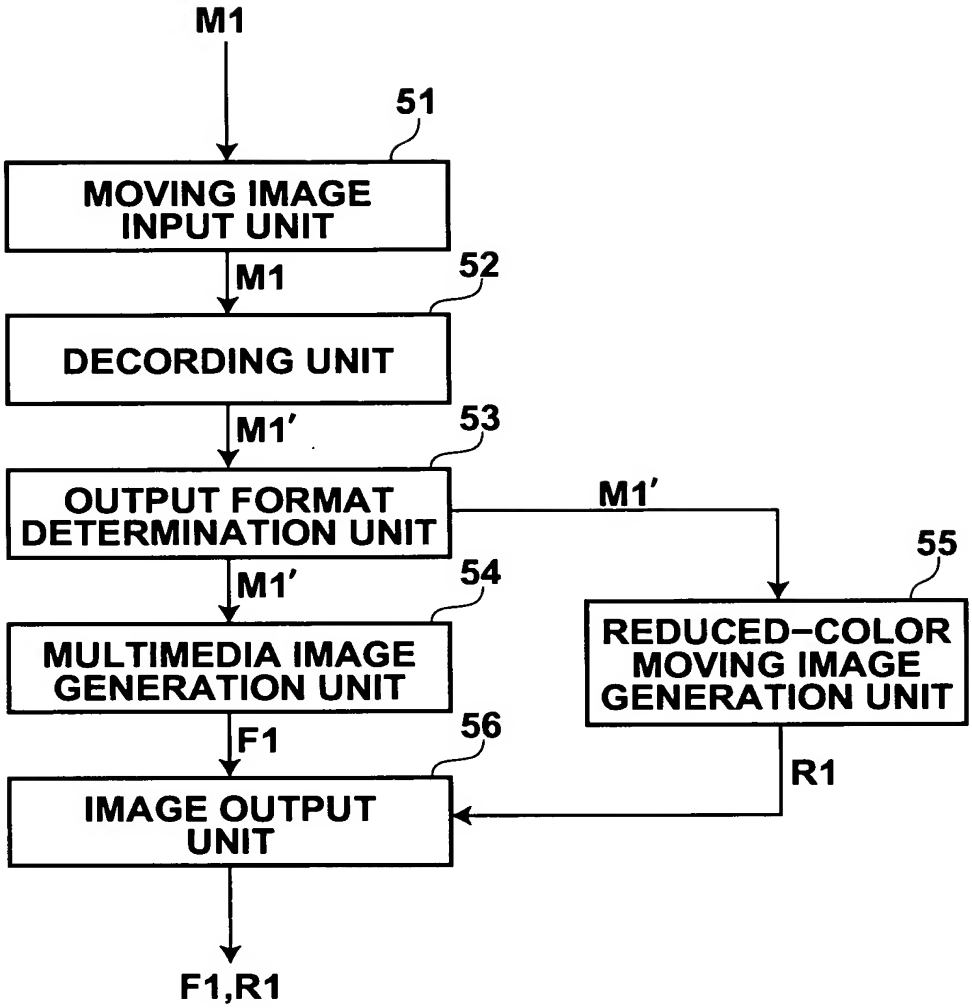

M1
51
MOVING IMAGE INPUT UNIT
M1
52
DECORDING UNIT
M1'
53
OUTPUT FORMAT DETERMINATION UNIT
M1'
55
M1'
54
MULTIMEDIA IMAGE GENERATION UNIT
REDUCED-COLOR MOVING IMAGE GENERATION UNIT
F1
56
R1
IMAGE OUTPUT UNIT
F1,R1

FIG.4

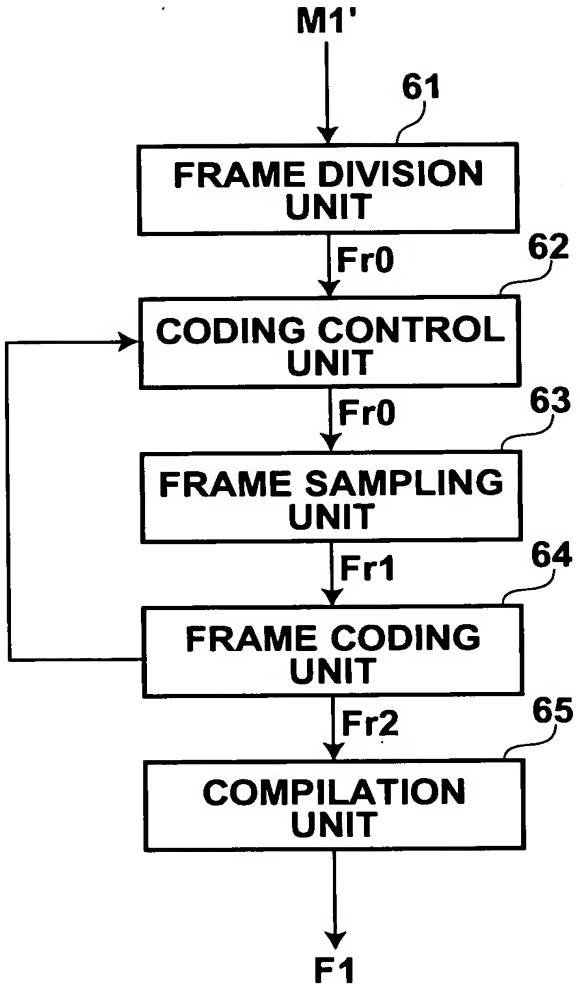

M1'
61
FRAME DIVISION UNIT
Fr0
62
CODING CONTROL UNIT
Fr0
63
FRAME SAMPLING UNIT
Fr1
64
FRAME CODING UNIT
Fr2
65
COMPILATION UNIT
F1

FIG.5

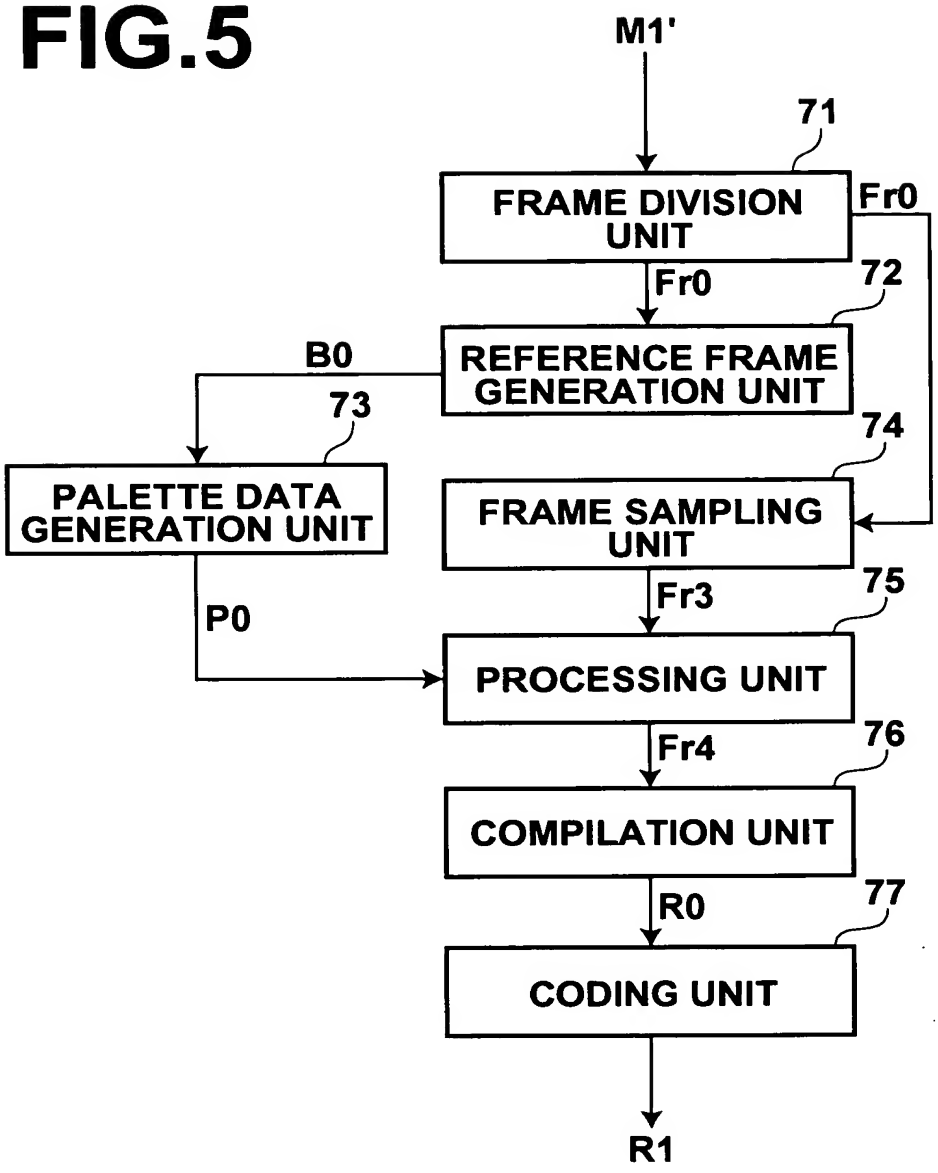

M1'
71
FRAME DIVISION UNIT
Fr0
Fr0
72
REFERENCE FRAME GENERATION UNIT
B0
73
PALETTE DATA GENERATION UNIT
74
FRAME SAMPLING UNIT
Fr3
75
P0
PROCESSING UNIT
Fr4
76
COMPILATION UNIT
R0
77
CODING UNIT
R1

FIG.6

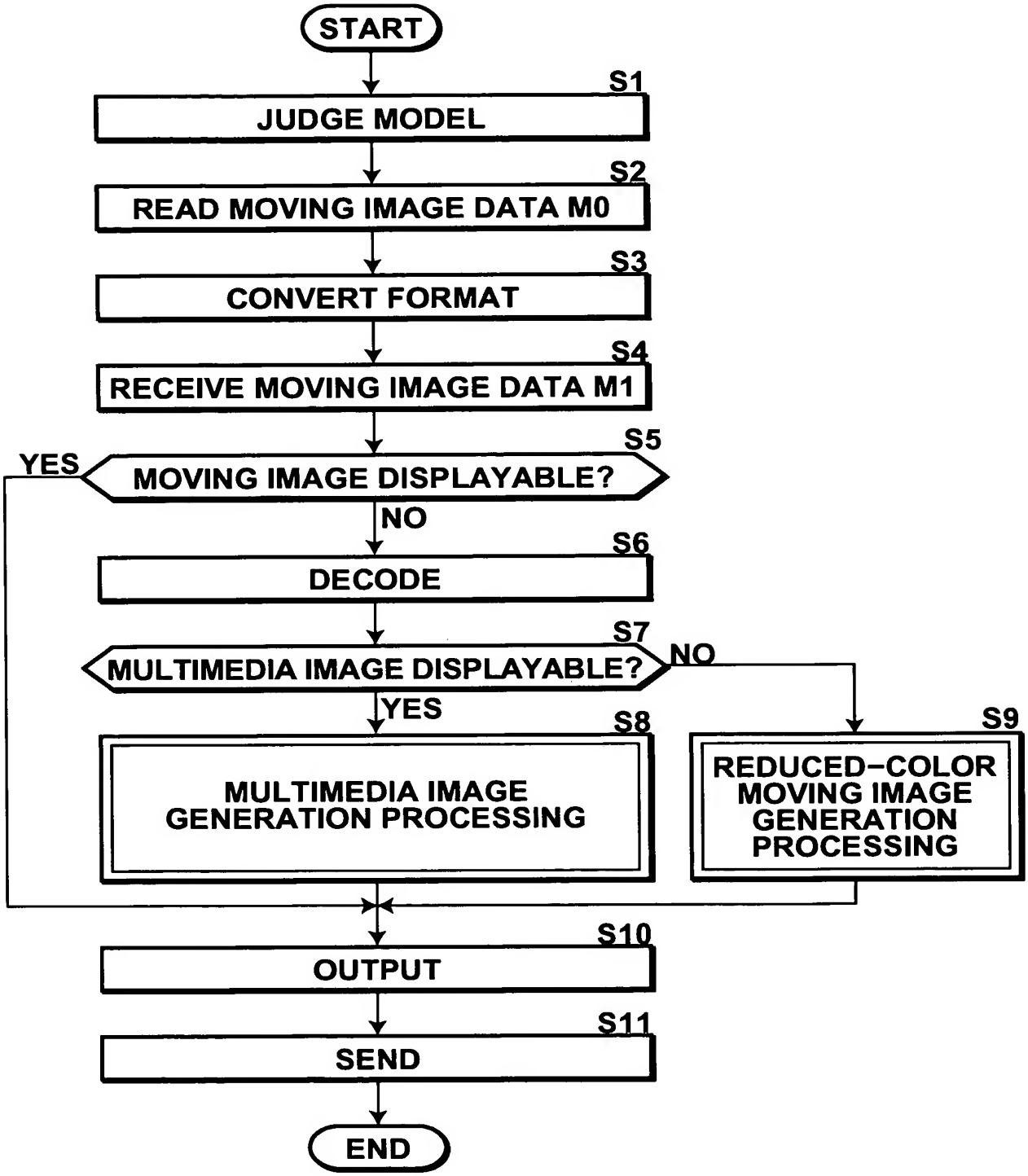

START
S1
JUDGE MODEL
S2
READ MOVING IMAGE DATA M0
S3
CONVERT FORMAT
S4
RECEIVE MOVING IMAGE DATA M1
S5
YES
MOVING IMAGE DISPLAYABLE?
NO
S6
DECODE
S7
MULTIMEDIA IMAGE DISPLAYABLE?
NO
YES
S8
MULTIMEDIA IMAGE GENERATION PROCESSING
S9
REDUCED-COLOR MOVING IMAGE GENERATION PROCESSING
S10
OUTPUT
S11
SEND
END

FIG.7

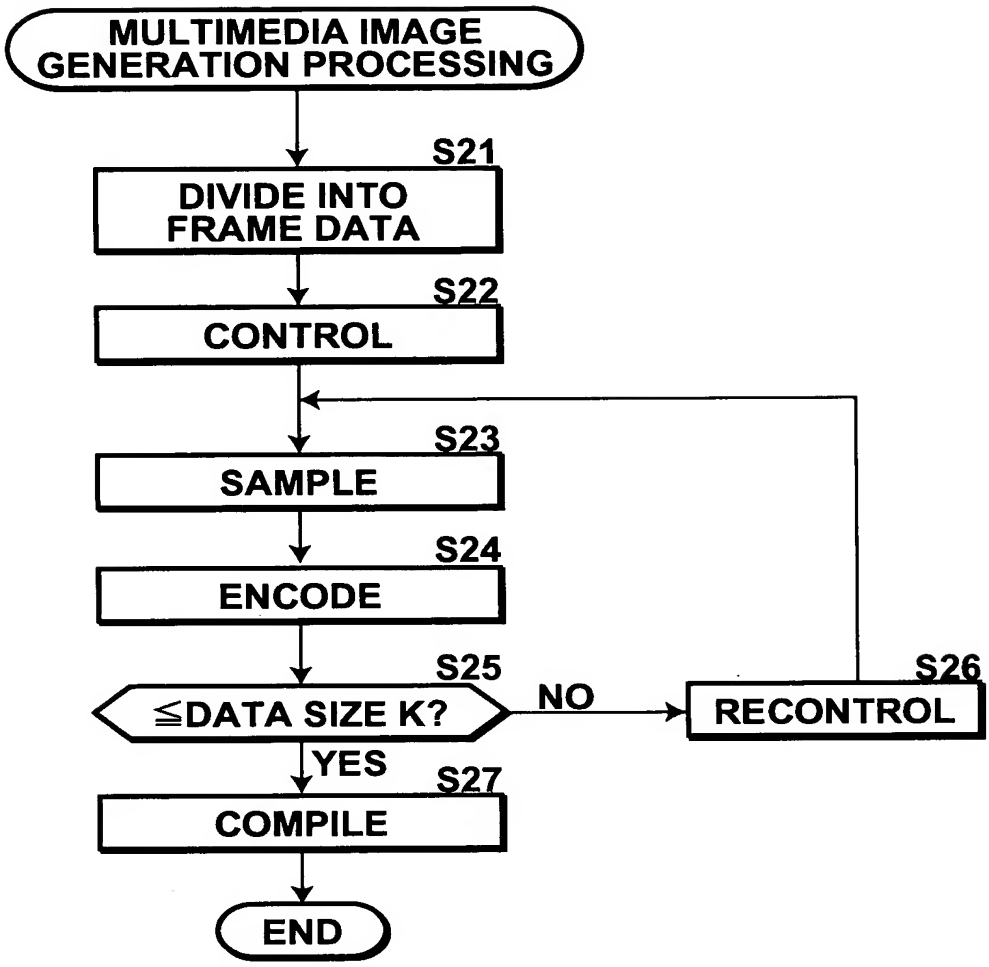

MULTIMEDIA IMAGE GENERATION PROCESSING
S21
DIVIDE INTO FRAME DATA
S22
CONTROL
S23
SAMPLE
S24
ENCODE
S25
≦DATA SIZE K?
NO
S26
RECONTROL
YES
S27
COMPILE
END

FIG.8

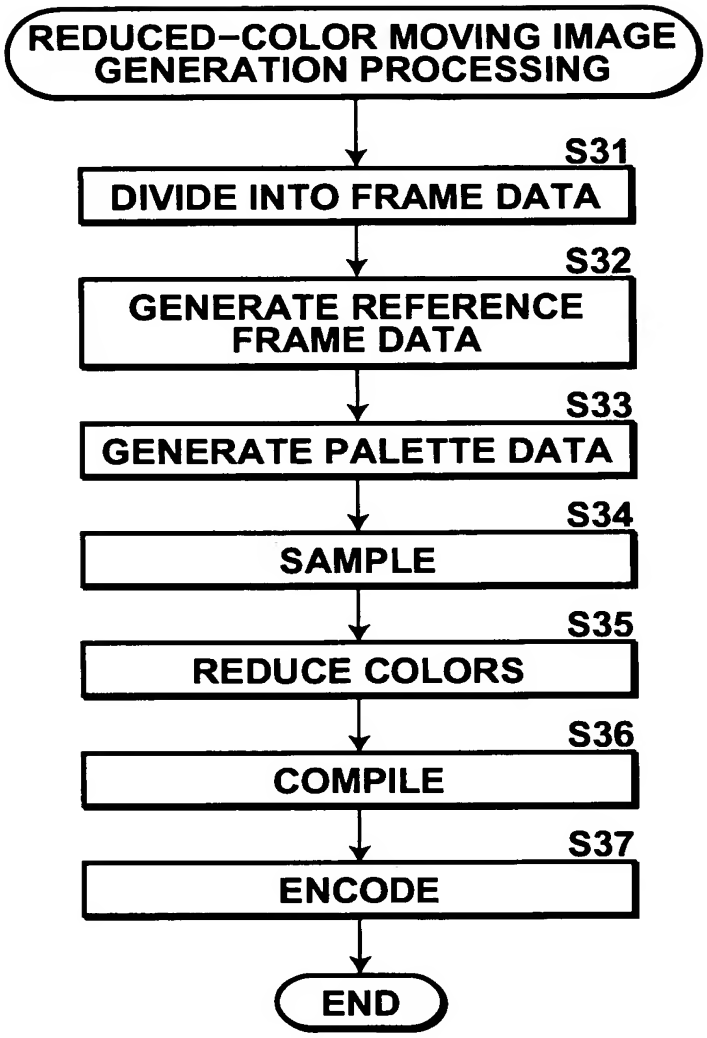

REDUCED-COLOR MOVING IMAGE GENERATION PROCESSING
S31
DIVIDE INTO FRAME DATA
S32
GENERATE REFERENCE FRAME DATA
S33
GENERATE PALETTE DATA
S34
SAMPLE
S35
REDUCE COLORS
S36
COMPILE
S37
ENCODE
END

FIG.9

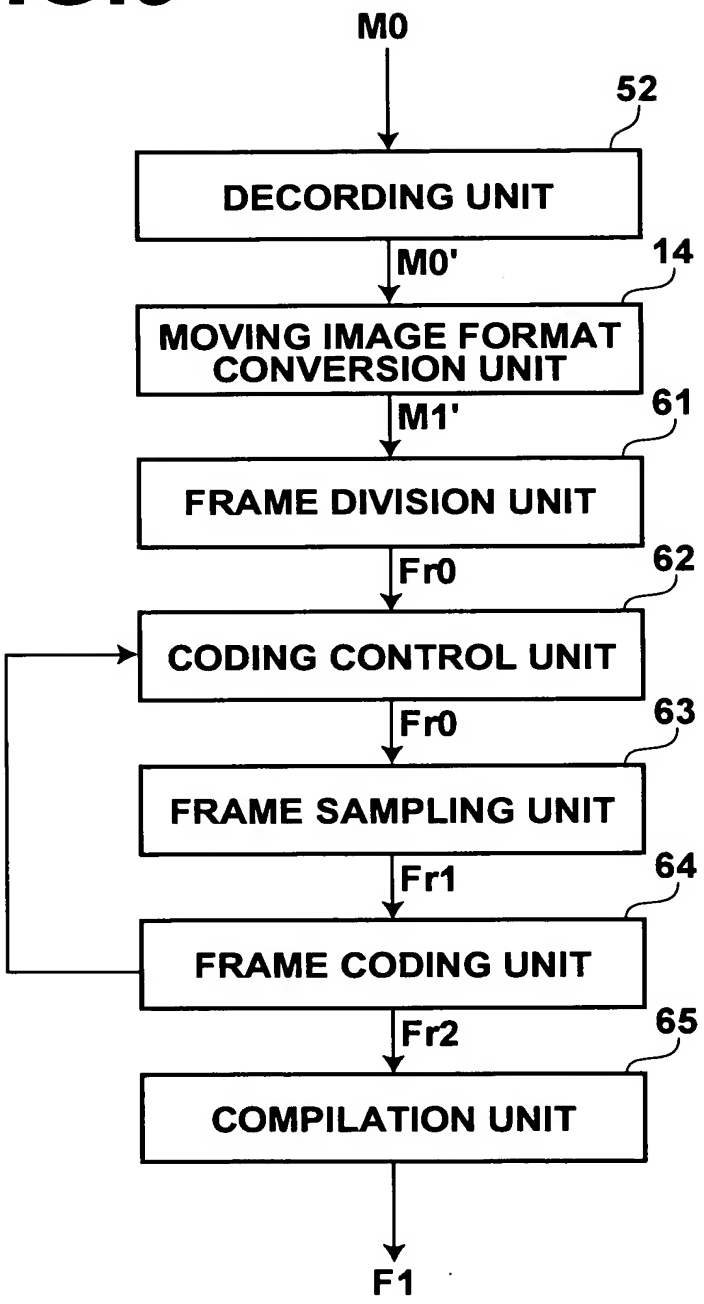

M0
52
DECORDING UNIT
M0'
14
MOVING IMAGE FORMAT CONVERSION UNIT
M1'
61
FRAME DIVISION UNIT
Fr0
62
CODING CONTROL UNIT
Fr0
63
FRAME SAMPLING UNIT
Fr1
64
FRAME CODING UNIT
Fr2
65
COMPILATION UNIT
F1

FIG.10

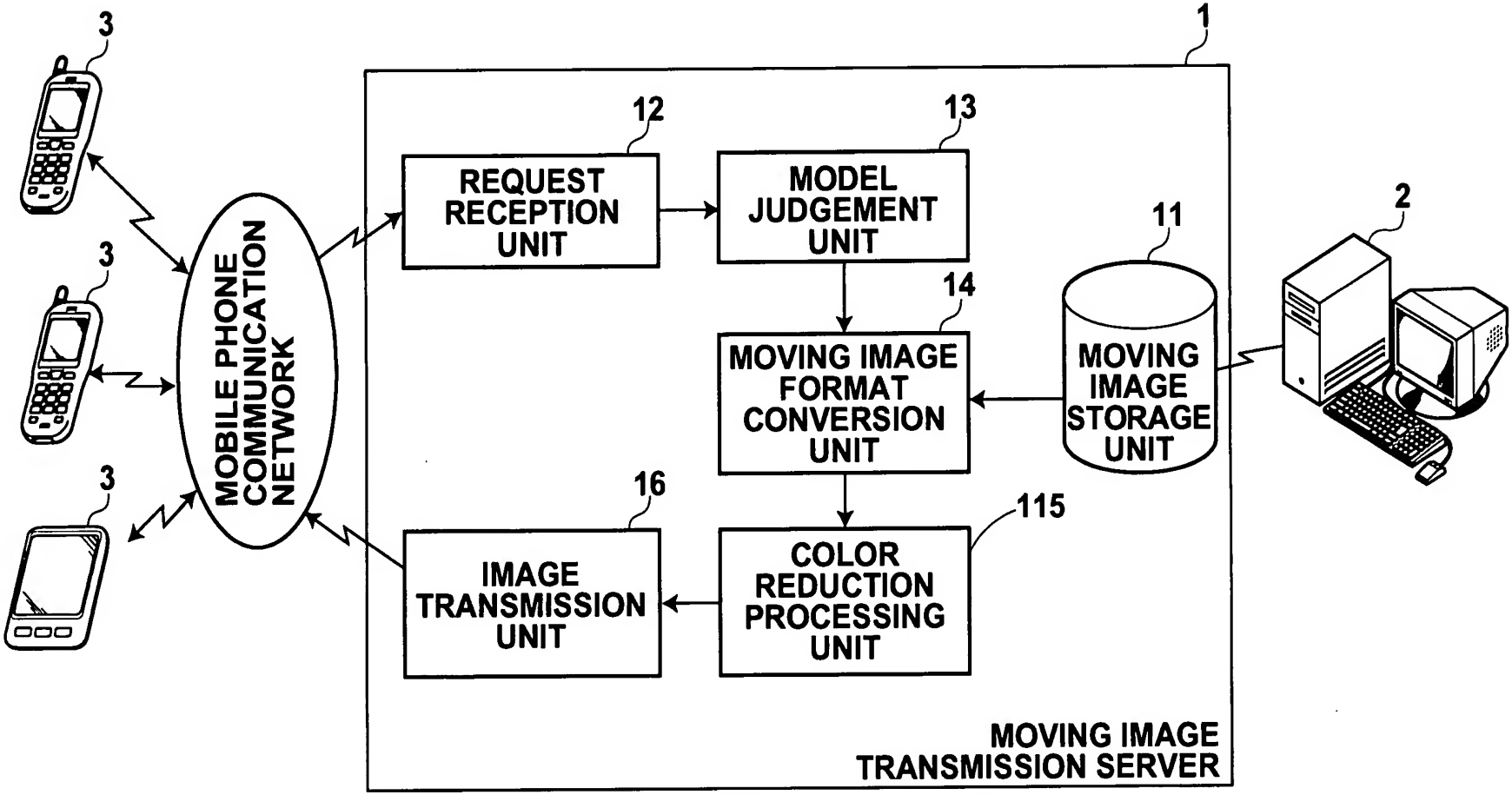

1
3
3
3
MOBILE PHONE COMMUNICATION NETWORK
12
REQUEST RECEPTION UNIT
13
MODEL JUDGEMENT UNIT
14
MOVING IMAGE FORMAT CONVERSION UNIT
11
MOVING IMAGE STORAGE UNIT
2
16
IMAGE TRANSMISSION UNIT
115
COLOR REDUCTION PROCESSING UNIT
MOVING IMAGE TRANSMISSION SERVER

FIG.11

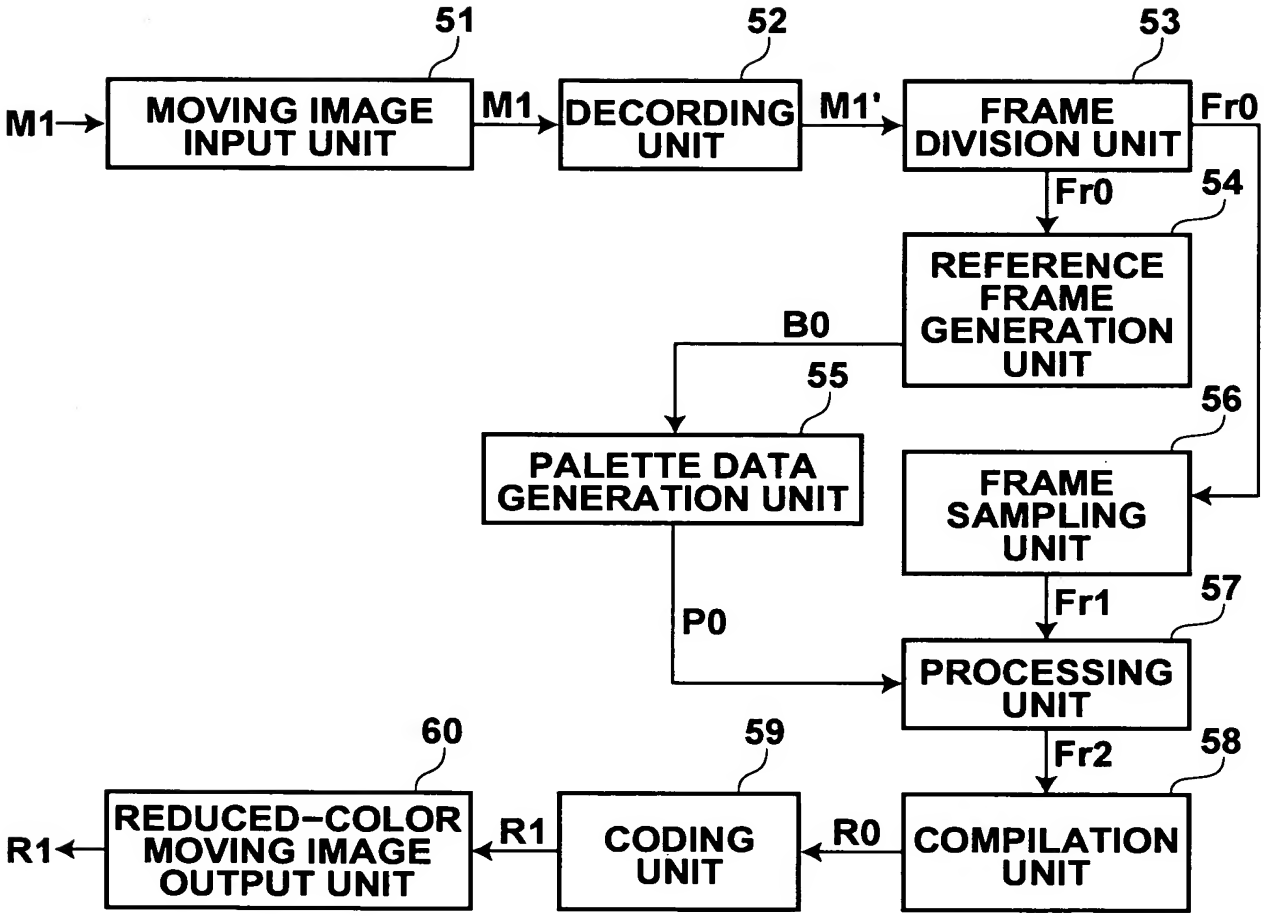

51
52
53
M1
MOVING IMAGE INPUT UNIT
M1
DECORDING UNIT
M1'
FRAME DIVISION UNIT
Fr0
Fr0
54
REFERENCE FRAME GENERATION UNIT
B0
55
56
PALETTE DATA GENERATION UNIT
FRAME SAMPLING UNIT
Fr1
57
P0
PROCESSING UNIT
Fr2
58
60
59
R1
REDUCED-COLOR MOVING IMAGE OUTPUT UNIT
R1
CODING UNIT
R0
COMPILATION UNIT

FIG.12

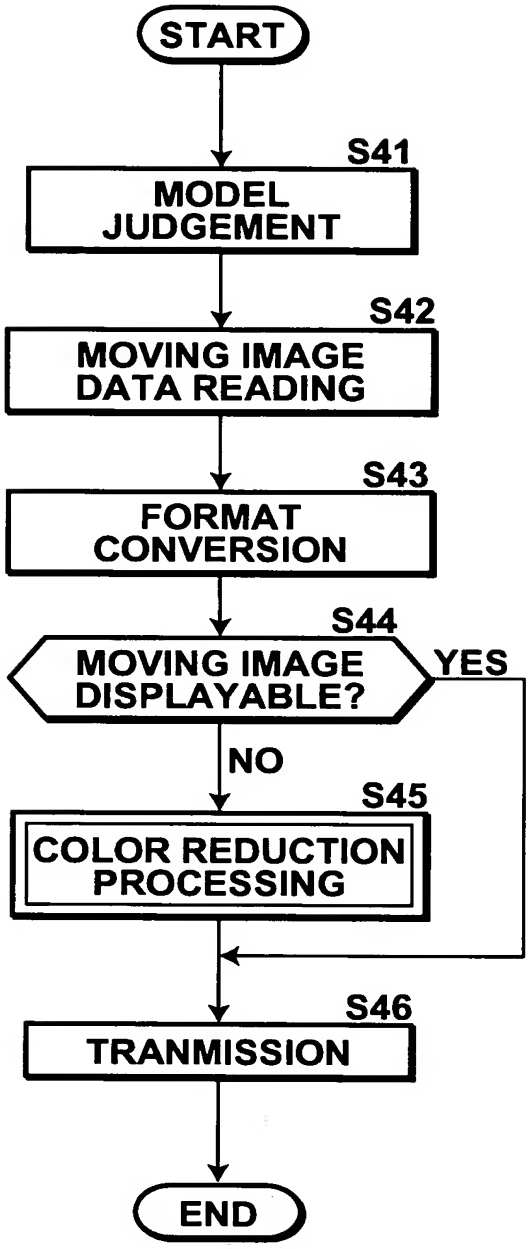
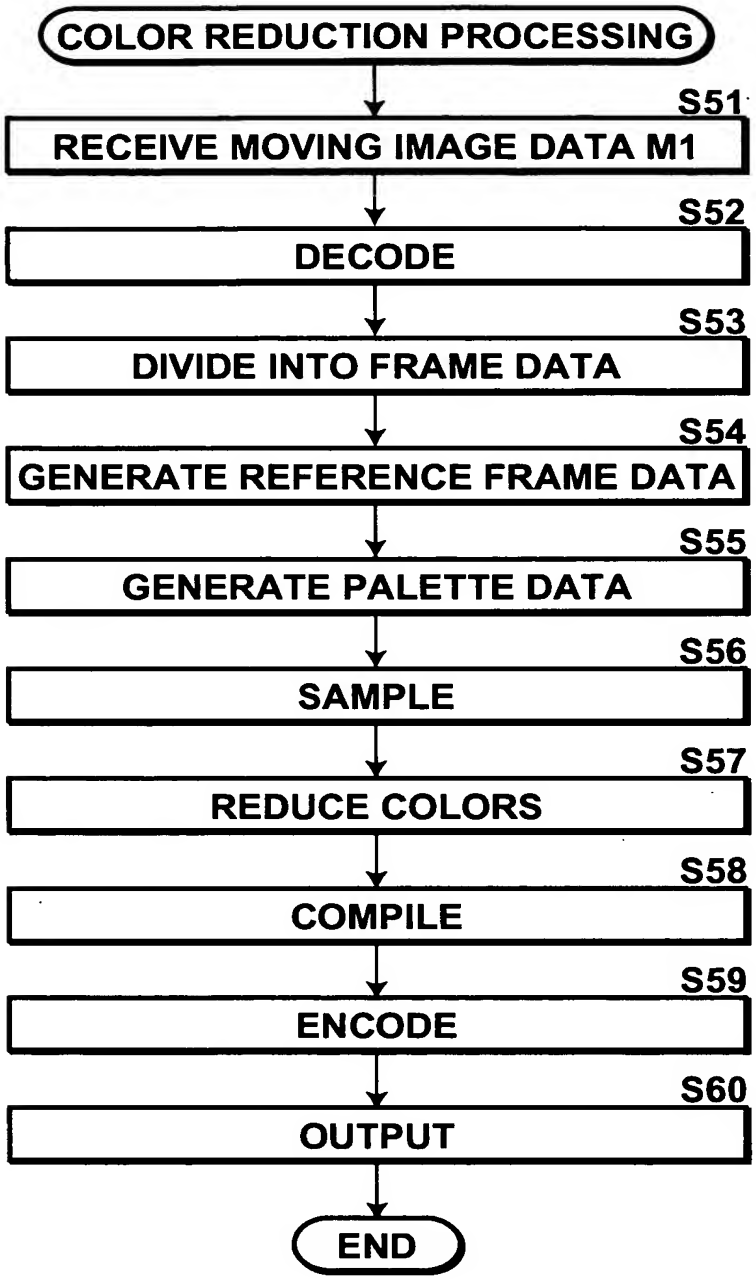

START
S41
MODEL JUDGEMENT
S42
MOVING IMAGE DATA READING
S43
FORMAT CONVERSION
S44
MOVING IMAGE DISPLAYABLE?
YES
NO
S45
COLOR REDUCTION PROCESSING
S46
TRANMISSION
END

FIG.13


COLOR REDUCTION PROCESSING
S51
RECEIVE MOVING IMAGE DATA M1
S52
DECODE
S53
DIVIDE INTO FRAME DATA
S54
GENERATE REFERENCE FRAME DATA
S55
GENERATE PALETTE DATA
S56
SAMPLE
S57
REDUCE COLORS
S58
COMPILE
S59
ENCODE
S60
OUTPUT
END